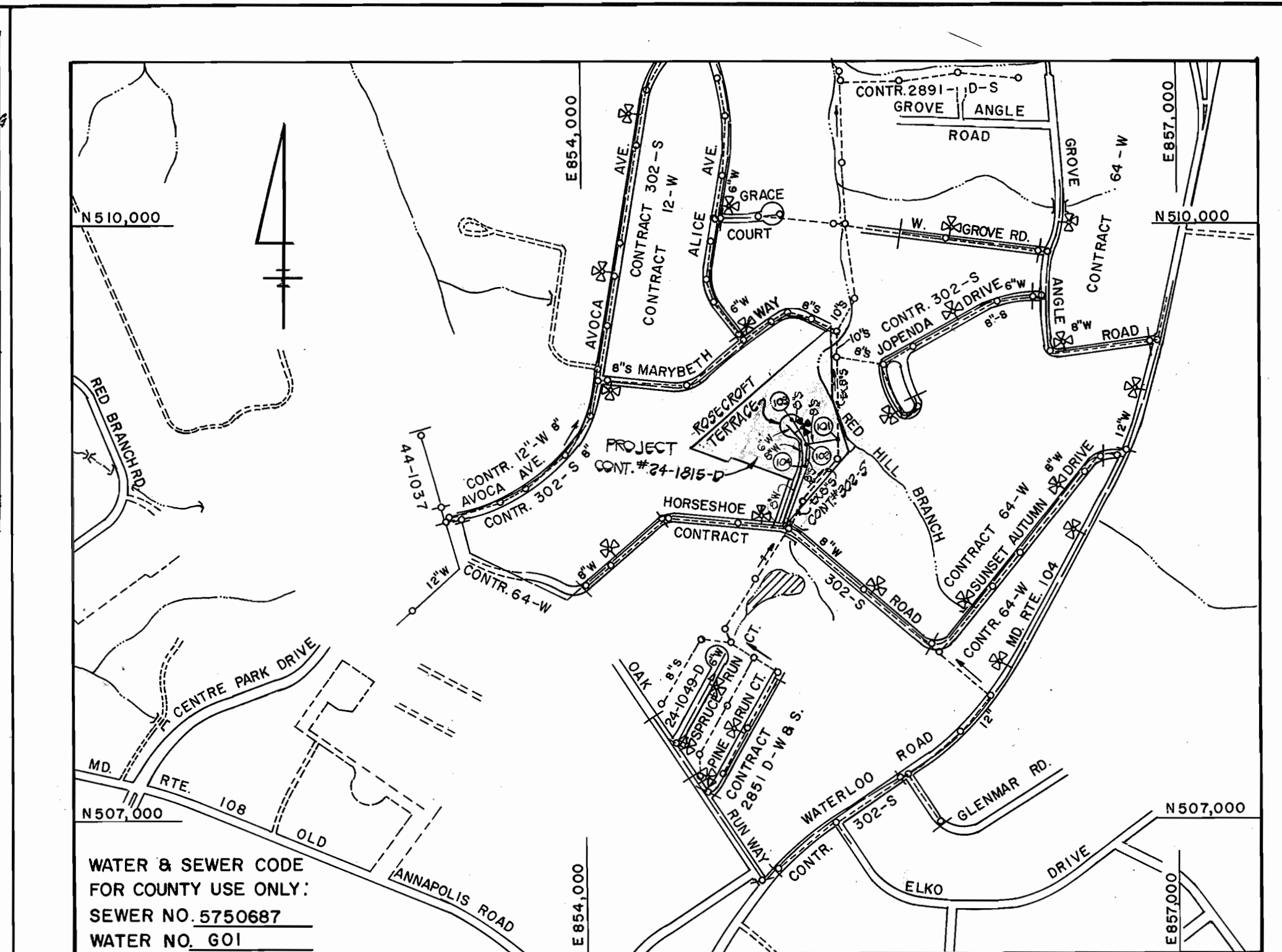


SEWER HOUSE CONNECTIONS	
MH #101 TO MH #102 = 160'	MH #103 TO LOT 3 = 90'
TO F.H. = 186'	TO LOT 4 = 90.3'
TO LOT 2 = 48'	TO LOT 5 = 61.1'
TO LOT 1 = 40.6'	TO LOT 6 = 58'
TO MH #104 = 134'	TO LOT 7 = 36.6'
TO LOT 11 = 111'	TO LOT 8 = 40.2'
TO LOT 12 = 12.5'	TO LOT 9 = 20'
TO F.H. = 76'	TO LOT 10 = 42'
LOT 12 TO MH #104 = 100.3'	TO F.H. = 58'
MH #104 TO LOT 1 = 49'	LOT 7 TO LOT 8 = 12'
MH #103 TO G VALVE = 68'	TO G VALVE = 36.3'
	TO LOT 3 = 115'

WATER HOUSE CONNECTIONS	
MH #102 TO 6" VALVE = 76'	TO LOT 7 = 59'
TO F.H. = 48'	TO LOT 8 = 24'
TO LOT 11 = 53'	TO METER = 18'
TO LOT 12 = 35.2'	TO LOT 10 = 25'
TO MH #104 = 108'	TO F.H. = 58'
TO G VALVE = 68.6'	TO G VALVE = 36.9'
TO LOT 2 = 73.6'	TO G VALVE = 36.9'
TO LOT 3 = 76.6'	TO LOT 1 = 42.7'
TO LOT 4 = 70.1'	TO LOT 12 = 77.3'
TO LOT 5 = 76.2'	TO LOT 11 = 39.4'
TO LOT 6 = 61'	TO LOT 8 = 81'

QUANTITIES			
ITEM	EST'D	AS-BUILT	SUPPLIER
8" SEWER	404 L.F.	404	J.M. MANUFACTURING
6" SEWER	348 L.F.	348	J.M. MANUFACTURING
MANHOLES	4 EACH	4	S. EMPORIA FOUNDRY 1-75 WEAVER BROS.
8" WATER	500 L.F.	500	GRIFFIN PIPE PRODUCTS
6" WATER	110 L.F.	110	GRIFFIN PIPE PRODUCTS
FIRE HYD. W/6" V	1 EACH	1	MUELLER CO.
3/4" W.H.C.	276 L.F.	276	HOWELL METALS
1" W.H.C.	172 L.F.	172	HOWELL METALS
8"x8" T.S. & V.	1 EACH	1	MUELLER CO.
8"x6" REDUCER	1 EACH	2	GRIFFIN PIPE PRODUCTS
OUTSIDE METER SETTINGS	2 EACH	1	FORD METER AUX. CO.

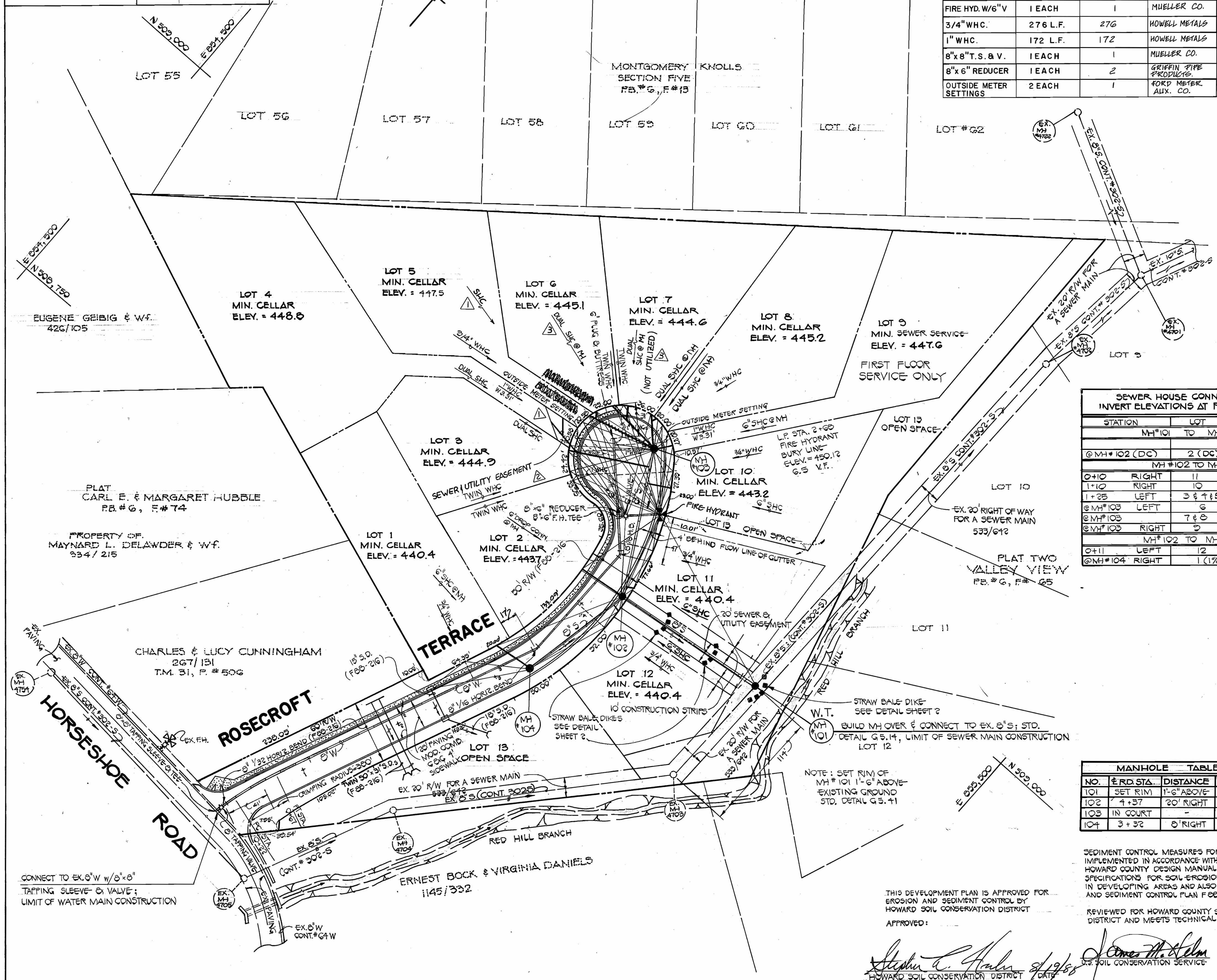


WATER & SEWER CODE FOR COUNTY USE ONLY:
SEWER NO. 5750687
WATER NO. 601

TYPE OF BUILDINGS: SINGLE FAMILY RESIDENTIAL
NUMBER OF LOTS: 13 (12 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS: 12
NO. OF SEWER HOUSE CONNECTIONS: 12
DRAINAGE AREA: FATAPESCO
(ROUTE 100 PUMPING STATION)

VICINITY MAP
SCALE: 1" = 600'

GENERAL NOTES



SEWER HOUSE CONNECTIONS INVERT ELEVATIONS AT PROPERTY LINE		
STATION	LOT	ELEVATION
MH #101 TO MH #102		
② MH #102 (DC)	2 (DC)	428.88
MH #102 TO MH #103		
④+10 RIGHT	11	428.53
11+10 RIGHT	10	428.25
11+25 LEFT	3 & 4+5	429.70
② MH #103 LEFT	6	440.03
② MH #103	7 & 8	439.31
② MH #103 RIGHT	9	439.05
MH #102 TO MH #104		
④+11 LEFT	12	425.26
② MH #104 RIGHT	1 (1%)	426.54

MANHOLE TABLE				
NO.	EST. STA.	DISTANCE	RIM	SLOPE
101	SET RIM	1'-6" ABOVE	EXISTING	GROUND
102	1+37	20' RIGHT	440.20	+1.50%
103	IN COURT		450.34	
104	3+32	0' RIGHT	446.00	+1.50%

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [] AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - C & P TELEPHONE COMPANY - 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL - 859-9004
 - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
 - MISS UTILITY - 1-559-0100
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREE, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.R.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH "12" AND "16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G.5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE (S) WITH THE SYMBOL "C.S.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER MAINS TO BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153: DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER & OTHER LIQUIDS.

PLAN REFERENCE NUMBERS:
S 00-01
P 07-00
F 00-216

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Selman
DIRECTOR OF PUBLIC WORKS
DATE: 8-16-88

Robert M. Beinger
CHIEF, BUREAU OF UTILITIES
DATE: 8-16-88

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

TERRELL A. FISHER
REGISTERED PROFESSIONAL ENGINEER

DES: P.W.K.	BY	NO.	REVISION	DATE
S.H.	△		INDICATE DUAL SHC TO LOTS NO. 617	12/28/84
DRN: J.O.	△		INDICATE SEWER & UTILITY EASEMENT	12/28/84
CHK: T.A.F.	△		REVISE LOCATION OF SHC TO LOT NO. 5	12/28/84
	△		REVISE CHARTS & MINIMUM CELLAR ELEVATIONS	11/10/86
	△		Revise lot lines & front footage for lots 2, 10, 11 & 13	7/14/88

APPROVED: Stephen C. Fisher 8/19/88
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: James M. Selman 8/19/88
U.S. SOIL CONSERVATION SERVICE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

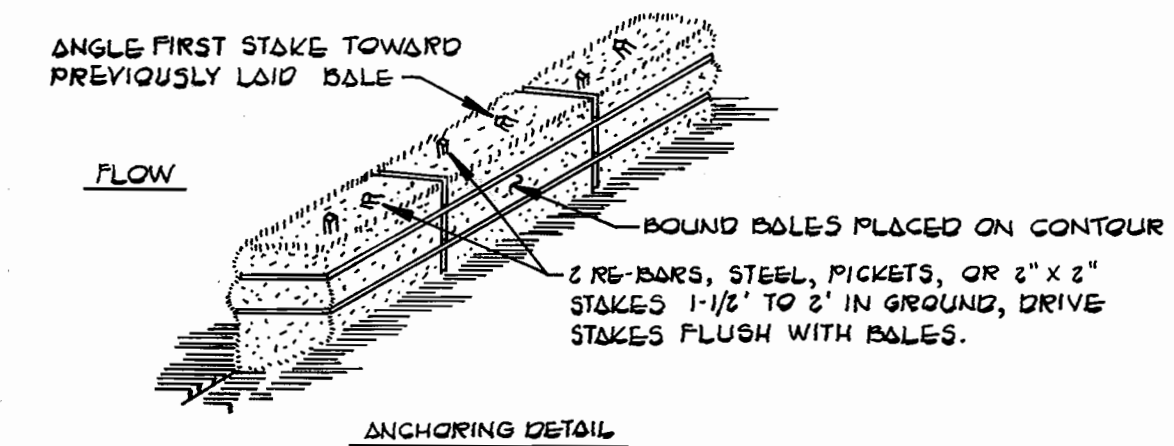
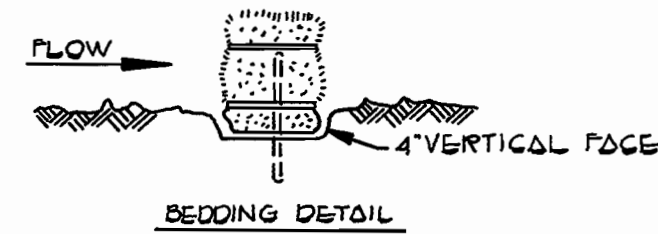
CONTRACT NO. 24-1815-D
SADDLE RIDGE
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

SADDLE RIDGE
CONTRACT NO. 24-1815-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 2

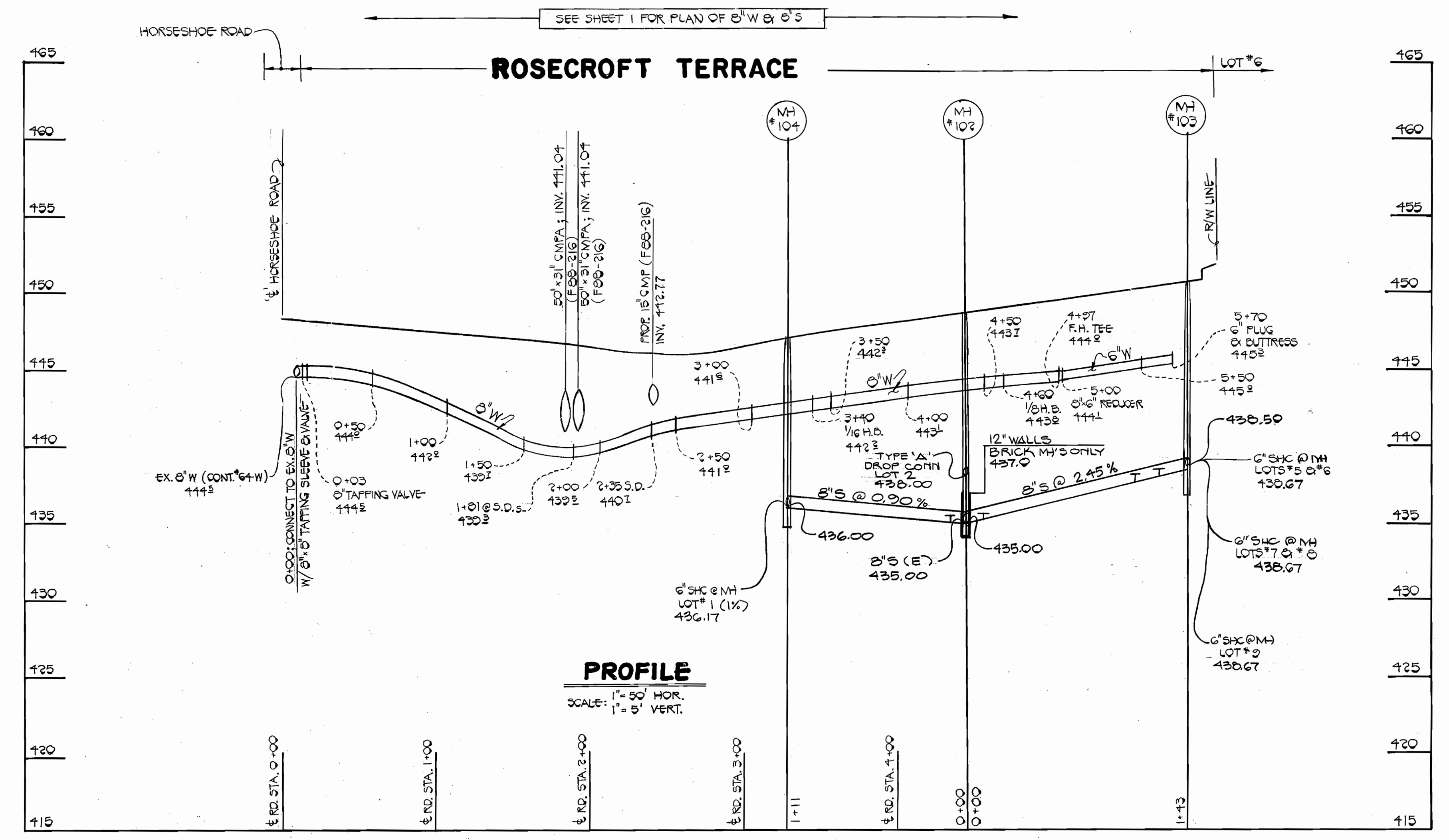
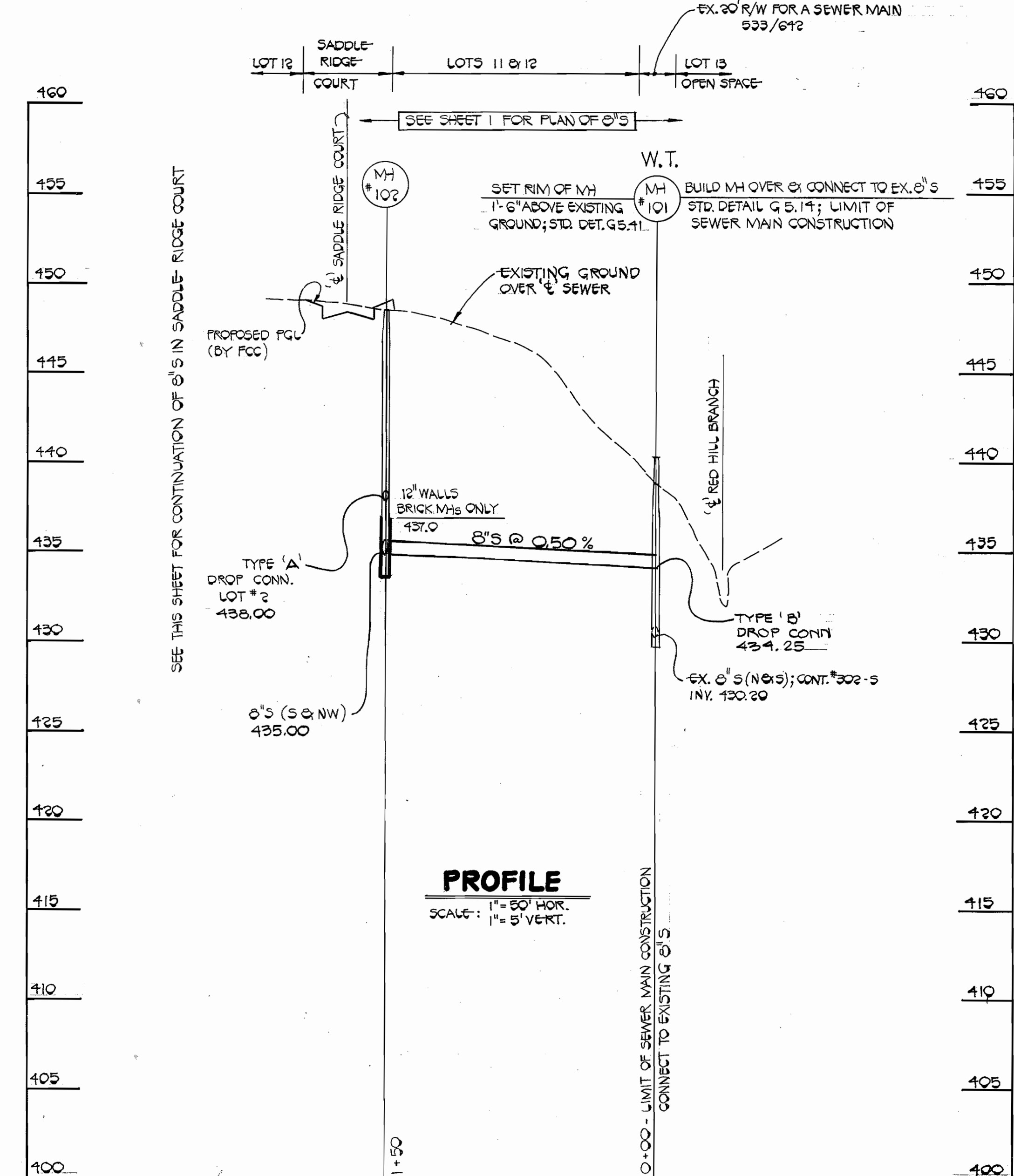
BRUNING 69150

13 BUILT 2/12/89



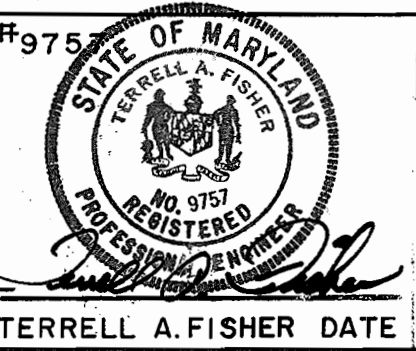
STRAW BALE DIKE

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043



DES: P. W. K.	
DRN: J. O.	
CHK: T. A. F.	
DATE:	
BY: G.W. I.	NO. 1
REVISION:	REVISE SEWER MAIN PROFILES
DATE:	11/19/99

**PROFILES
WATER AND SEWER MAINS**

SADDLE RIDGE
CONTRACT NO. 24-1815-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 2

CONTRACT NO. 24-1815-D
SADDLE RIDGE
WATER AND SEWER EXTENSIONS
HOWARD COUNTY, MARYLAND